

**PACKAGE-OIL Filled Service Transformer**  
**PROJECT-1 X 660 MW BHUSAWAL TPP**  
**ENQUIRY NO.- PE/PG/BHU/E-6888/2021 Dtd. 21.02.2022**

**Bidder's Name-**

S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
<b>(A)</b>	<b>OIL Filled Service Transformer-Main supply</b>											
<b>A1</b>	10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 9.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM) [Refer Note-2]	8504	2	NOS.		0		0		0	0
<b>A2</b>	7500 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 8.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>A3</b>	6300 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 8.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>A4</b>	2000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 6.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	4	NOS.		0		0		0	0
<b>A5</b>	1000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 6.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND WITH BUS-DUCT TYPE LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>A6</b>	630 kVA, 6.6kV/433 V, 3 PHASE, 2 WINDING, OUTDOOR, ONAN, Z= 6.0%, Dyn11, OFF CIRCUIT TAP CHANGER ±5% IN STEPS OF 2.5% (WITH CABLE BOX TYPE HV AND LV TERMINATION)	OIL FILLED SERVICE TRANSFORMERS (MAIN SUPPLY ITEM)	8504	2	NOS.		0		0		0	0
<b>(B)</b>	<b>10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-Main Supply</b>											
<b>B1</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B2</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 7500 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B3</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 6300 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B4</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 2000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B5</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 1000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>B6</b>	10 % EXTRA TRANSFORMER OIL IN SEALED NON RETURNABLE STANDARD DRUMS-FOR 630 KVA, 6.6KV/433 V, 3 PHASE, 2 WINDING TRANSFORMER	MAIN SUPPLY ITEM(Refer Note 4 & 5)	8504	1	LOT		0		0		0	0
<b>(C)</b>	<b>MISC. ITEMS/SCOPE</b>											
<b>C.1</b>	<b>SPECIAL TOOLS AND TACKLES</b> (Bidder to furnish List)	Main Supply	85444920	1	LOT		0		0		0	0
<b>C.2.1</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
<b>C.2.2</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 7500 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
<b>C.2.3</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 6300 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
<b>C.2.4</b>	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 2000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	4	Nos.		0		0		0	0

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S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
C.2.5	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 1000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
C.2.6	FREQUENCY RESPONSE ANALYSIS TEST AFTER INSTALLATION AT SITE-FOR 630 KVA, 6.6/0.433 kV, 3 PHASE, 2 WINDING TRANSFORMER	TEST AT PROJECT SITE (Bidder to Quote "0" in Freight Charges column.) Refer Note 6 & 8	998346	2	Nos.		0		0		0	0
(D)	<b>TYPE TEST (refer Sl no.-9, 10, 11)</b>											
D.1	Dielectric test as per method 2 of IS 2026 part III	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.2	Separate source voltage withstand test for 1 min HV- 28kVrms, LV-10kVrms	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.3	Full wave lightning impulse test on HV terminal at 75 kVp	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.4	Full wave lightning impulse test on LV terminal at 40 kVp	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.5	Switching impulse test on HV terminal at rated 75kVp	Type Test-For FOR 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.6	Repeat no load loss and excitation current measurement after dielectric test at 100% rated voltage and rated frequency	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.7	Determination of transient voltage transfer characteristic	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.8	Measurement of transferred surge on LV winding due to HV lightning impulse	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Dielectric Type test (IEC60076-3) & Special Test) (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.9	Measurement of zero-sequence impedance of three- phase transformers	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.10	Measurement of acoustic noise-level	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.11	Measurement of the harmonics in the No-load current	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
D.12	Vacuum withstand test (full vacuum)	Type Test-For 1 NO. 10000 KVA, 11/3.45 kV, 3 PHASE, 2 WINDING, TRANSFORMER (Bidder to Quote "0" in Freight Charges column.)	998346	1	No.		0		0		0	0
(E)	<b>Mandatory Spares- Oil Filled Service Transformer</b>											
E.1.1	HV BUSHING WITH METAL PARTS AND GASKETS 12KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	3	SETS		0		0		0	0
E.1.2	LV BUSHING WITH METAL PARTS AND GASKETS 3.6 KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	3	SETS		0		0		0	0

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<b>E.1.3</b>	Winding temperature indicator (WTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.4</b>	OIL temperature indicator (OTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.5</b>	REMOTE WTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.1.6</b>	REMOTE OTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.1.7</b>	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.8</b>	Magnetic oil gauge (MOG) (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.9</b>	BUCHOLZ RELAY COMPLETE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.10</b>	SET OF GASKETS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.11</b>	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.12</b>	AIR CELL FOR CONSERVATOR (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.13</b>	SET OF TAP CHANGE CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.14</b>	SUDDEN PRESSURE RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.15</b>	LV NEUTRAL BUSHING (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	2	SETS		0		0		0	0
<b>E.1.16</b>	SILICA GEL BREATHING (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.1.17</b>	COMPLETE CABLE CUM BUS DUCT LV 1 NO. TERMINAL (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 10000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.1</b>	HV BUSHING WITH METAL PARTS AND GASKETS 12KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	3	SETS		0		0		0	0
<b>E.2.2</b>	LV BUSHING WITH METAL PARTS AND GASKETS 3.6 KV (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	3	SETS		0		0		0	0
<b>E.2.3</b>	Winding temperature indicator (WTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.4</b>	OIL temperature indicator (OTI) WITH CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.5</b>	REMOTE WTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.2.6</b>	REMOTE OTI (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	No.		0		0		0	0
<b>E.2.7</b>	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0
<b>E.2.8</b>	Magnetic oil gauge (MOG) (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kV, 2000 kVA Transformer	8504	1	SET		0		0		0	0

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E.2.9	BUCHOLZ RELAY COMPLETE (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.10	SET OF GASKETS (OF EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.11	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.12	AIR CELL FOR CONSERVATOR (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.13	SET OF TAP CHANGE CONTACTS (OF EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.14	SUDDEN PRESSURE RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.15	LV NEUTRAL BUSHING (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	2	SETS		0		0		0	0
E.2.16	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.2.17	COMPLETE CABLE CUM BUS DUCT LV 1 NO. TERMINAL (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA	MANDATORY SPARES-(FOR EACH TYPE & RATING) FOR 11/3.45 kv, 2000 kVA Transformer	8504	1	SET		0		0		0	0
E.3.1	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.3.2	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.3.3	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.3.4	HV, LV AND LV NEUTRAL BUSHING (OF EACH TYPE & RATING) FOR 6.6/0.433 kv, 630 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.4.1	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.4.2	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.4.3	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.4.4	WTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433 kv, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.5.1	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.5.2	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.5.3	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.5.4	TAP CHANGER CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433 kv, 630 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.6.1	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.6.2	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.6.3	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kv, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0

**PACKAGE-OIL Filled Service Transformer**  
**PROJECT-1 X 660 MW BHUSAWAL TPP**  
**ENQUIRY NO.- PE/PG/BHU/E-6888/2021 Dtd. 21.02.2022**

**Bidder's Name-**

S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
E.6.4	MAGNETIC OIL GAUGE / OIL LEVEL INDICATOR WITH CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.1	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.2	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.3	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.7.4	OTI WITH CONTACTS (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 Kva	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.1	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.2	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.3	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.8.4	BUCHOLZ RELAY (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.1	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.2	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.3	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.9.4	FLOAT WITH CONTACTS FOR BUCHOLZ REALY (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.1	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.2	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.3	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.10.4	SET OF GASKETS (OTHER THAN THAT WITH BUSHING) OF EACH TYPE & RATING FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.11.1	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 7500 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.11.2	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.11.3	SET OF VALVES (OF EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.11.4	SET OF VALVES (OF EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	SET		0		0		0	0
E.12.1	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 Kva	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.12.2	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.12.3	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0

PACKAGE-OIL Filled Service Transformer  
PROJECT-1 X 660 MW BHUSAWAL TPP  
ENQUIRY NO.- PE/PG/BHU/E-6888/2021 Dtd. 21.02.2022

Bidder's Name-

S. No.	DESCRIPTION OF EQUIPMENT / ITEM FOR OIL FILLED SERVICE TRANSFORMERS	DESCRIPTION 1	HSN CODE	Quantity	Unit	Unit Ex- Works Price (Rs.)	Total Ex-Works Price (Rs.)	Freight % of Total Ex- works Price	Freight Charges (Rs.)	Rate of GST (%)	GST Amount ON Total Ex-works Price & Freight (Rs.)	Total FOR Site Price (Rs.)
E.12.4	PRESSURE RELIEF DEVICE (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	NOS.		0		0		0	0
E.13.1	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 7500 Kva	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.13.2	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 6300 kVA	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.13.3	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 11/3.45 kV, 1000 kVA	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.13.4	SILICA GEL BREATHER (FOR EACH TYPE & RATING) FOR 6.6/0.433 kV, 630 kVA	MANDATORY SPARES	8504	1	SETS		0		0		0	0
E.14.1	TEMPERATURE INDICATOR / GAUGE FOR 11kV/3.45KV TRANSFORMERS	MANDATORY SPARES	8504	2	NOS.		0		0		0	0
E.14.2	TEMPERATURE SCANNER FOR 11kV/3.45KV TRANSFORMERS	MANDATORY SPARES	8504	2	NOS.		0		0		0	0
( F )	GRAND TOTAL FOR EVALUATION (RS.)(A+B+C+D+E)						0		0		0	0

**NOTES :**

1	BIDDER TO NOTE THAT THE COST OF TRANSFORMER SHALL INCLUDE THE COST OF ROUTINE TEST (MENTIONED AT CLAUSE 5.1 OF ANNEXURE-III, SEC-I OF TECHNICAL SPECIFICATION). ROUTINE TESTS SHALL BE CARRIED OUT ON ALL TRANSFORMERS WITHOUT ANY ADDITIONAL COST. BIDDER SHALL QUOTE ACCORDINGLY. BIDDER TO SUBMIT THE ROUTINE TEST REPORTS FOR APPROVAL.					
2	SPECIAL / TYPE TESTS AS PER IS/IEC AND CLAUSE 5.2 OF ANNEXURE-III, SEC-I OF TECHNICAL SPECIFICATION SHALL BE CONDUCTED ON 1 NO. 10 MVA, 11/3.45 kV TRANSFORMER AT THIRD PARTY LAB/ BIDDER WORKS IN PRESENCE OF BHEL/ CUSTOMER'S REPRESENTATIVE. BIDDER SHALL QUOTE COST OF TYPE TEST(EXCEPT SHORT CIRCUIT TEST DETAILS OF WHICH IS MENTIONED IN SL. NO. 3 BELOW) FOR 1 NO. 10 MVA 11/3.45 kV TRANSFORMER . BIDDER TO SUBMIT THE TYPE TEST REPORTS FOR APPROVAL.					
3	CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST (ON 1 NO. 10 MVA 11/3.45 kV TRANSFORMER) SHALL BE PAYABLE BASED ON ACTUAL INVOICE FROM DESIGNATED LABORATORIES (CPRI BHOPAL/ CPRI BANGLORE / ERDA VADODARA) WITH AN ADDITIONAL LUMP SUM AMOUNT OF 5% OF EX-WORKS PRICE OF TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.).					
4	QUANTITY OF 10% EXTRA OIL (CONSIDERED AS 1 LOT FOR EACH RATING AND TOTAL NOS. OF TRANSFORMER OF PARTICULAR RATING MENTIONED UNDER SL. NO. 1 TO 6) SHALL BE SUBJECT TO APPROVAL DURING DETAIL ENGINEERING AS PER QUANTITY OF OIL FINALISED FOR EACH RATING OF TRANSFORMER.					
5	BIDDER SHALL QUOTE THE COST OF 10% EXTRA OIL IN THE LINE ITEMS MENTIONED ABOVE AND <b>NOT</b> TO BE COMBINED/INCLUSIVE WITH COST OF TRANSFORMER.					
6	BIDDER TO CARRY OUT FREQUENCY RESPONSE ANALYSIS TEST (MENTIONED IN ANNEXURE-III, CL. NO. 5.1.6) ON ALL TRANSFORMER AFTER INSTALLATION AT SITE. ANY EQUIPMENT/ INSTRUMENT INCLUDING FREQUENCY RESPONSE ANALYSER FOR TESTING AT SITE SHALL BE ARRANGED BY BIDDER. NO OTHER CHARGES SHALL BE PAYABLE BY BHEL.					
7	BOQ-CUM-PRICE SCHEDULE MAIN TRANSFORMERS (A), EXTRA OIL (B), MISC. ITEMS (C.), TYPE TEST (D) & MANDATORY SPARES (E) AND WILL BE CONSIDERED FOR PRICE EVALUATION PURPOSE.					
8	Bidder to ensure that the prices of the Frequency Response Analysis Test after installation at site should be exactly 1% of the Ex-works prices of respective Transformer. In case, it is found in price bid that the same is not exactly 1%, BHEL shall evaluate the offer on the basis of quoted prices, however, during ordering, shall adjust the same as 1% of Ex-works prices of respective Transformer.					
9	**CHARGES FOR CARRYING OUT SHORT CIRCUIT TEST SHALL BE PAYABLE BASED ON ACTUAL INVOICE FROM DESIGNATED LABORATORIES (CPRI BHOPAL/ CPRI BANGLORE / ERDA VADODARA) WITH AN ADDITIONAL LUMP SUM AMOUNT OF 5% OF EX-WORKS PRICE OF TRANSFORMER BEING TESTED TO COVER HANDLING COSTS (TRANSPORTATION, INSURANCE ETC.)					
10	IN CASE ANY OF THE TYPE AND SPECIAL TESTS ARE REQUIRED TO BE REPEATED THE SAME SHALL BE CARRIED OUT BY THE BIDDER WITHOUT ANY COMMERCIAL / DELIVERY IMPLICATION TO BHEL.					
11	BIDDER TO QUOTE FOR EACH TEST.					
12	Mandatory spares:- 1 SET CONSISTS OF QUANTITIES REQUIRED FOR 1 COMPLETE RATING OF TRANSFORMER					

ANNEXURE - II									
SCHEDULE OF TECHNICAL AND COMMERCIAL DEVIATION									
PROJECT:- 1 x 660 MW BHUSAWAL TPP									
PACKAGE:- OIL Filled Service Transformer									
TENDER REF NO - PE/PG/BHU/E-6888/2021 dated 21.02.2022									
NAME OF VENDOR:-									
SL NO	VOULME/ SECTION	PAGE NO.	CLAUSE NO.	TECHNICAL SPECIFICATION/ TENDER DOCUMENT	COMPLETE DESCRIPTION OF DEVIATION	COST OF WITHDRAWL OF DEVIATION	REFERENCE OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWL OF DEVIATION IS APPLICABLE	NATURE OF COST OF WITHDRAWL OF DEVIATION (POSITIVE/ NEGATIVE)	REASON FOR QUOTING DEVIATION
<b>TECHNICAL DEVIATIONS</b>									
<b>COMMERCIAL DEVIATIONS</b>									
<b>PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE</b>									
<b>NAME</b>				<b>DESIGNATIONS</b>		<b>SIGN &amp; DATE</b>			
<b>NOTES:</b>									
1. Cost of withdrawl of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.									
2. All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.									
3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.									
4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawl of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In the absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.									
5. Bidder shall furnish price copy of above format along with price bid.									
6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.									
7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.									
8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawl of deviation loading as per Annexure-VII, will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawl of deviation shall be taken as NIL.									
9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be considered.									
10. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.									
11. Cost of withdrawl is to be given seperately for each deviation. In no event bidder should club cost of withdrawl of more than one deviation else cost of withdrawl of such deviations which have been clubbed together shall be considered as NIL.									
12. In case nature of cost of withdrawl (positive/negative) is not specified it shall be assumed as positive.									
13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.									